



Computer Specifications

CPU: 80C286 microprocessor, 8/12 MHz
switch-selectable clock speeds

Math Coprocessor: 80C287 support (optional), 8MHz

RAM: 1 MB (640KB standard and 384KB extended)

Interfaces:

- Parallel:** Standard 8-bit parallel; 25 pin, D-type female connector
- Serial:** RS-232C, programmable, asynchronous; 9 pin, D-type male connector
- Video:** 9-pin female connector supports MDA, CGA, EGA, and extended EGA

External diskette drive: 15-pin, D-type female connector

Expanded keyboard: Keyboard connector

Speaker: Internal

Option slot: One 2/3 size, IBM PC AT-compatible slot

Memory: Internal RAM memory card slot allows expansion to 2MB; 40-pin male connector

Modem: Internal modem slot; 34-pin male connector

Clock/Calendar: Real-time clock and calendar with battery backup

Keyboard: 84 sculpted keys; LCD indicator icons for Num Lock, Caps Lock, Scroll Lock

Mass Storage:

- Hard Disk:** Interchangeable, pop-out, 20MB or 40MB hard disk designed for low power consumption; 28ms average access time; built-in, 16-bit bus AT-compatible controller

Diskette drives: One internal 1.44MB 3.5" diskette drive; optional, external 5.25" (1.2MB) diskette drive

Display: Large (640X480 dots), high contrast, paper-white, backlit, LCD display with 16-level gray scale; continuous brightness and contrast controls; power-saving feature. CRT mode supports ECD (enhanced color display), monochrome display, color display, and multisync-compatible CRT's. External RGB monitor supported (EGA-compatible).

Power Supply: Externally attached, rechargeable NiCad battery pack (4000 milliampere-hours); up to 4 hours
12/5-volt AC adapter (can recharge battery pack while operating computer) with automatic 1 00-240V sensing.

Power

Requirements: 100-240 VAC, 50/60 Hz.
NiCad rechargeable battery pack, 9.6 volts, 4 ampere hours

Environmental Conditions:

Temperature: Operating Range: 41 to 95 degrees F (5 to 35 degrees C)
Storage Range: 4 to 122 degrees F (-20 to 60 degrees C)

Humidity: Operating Range: 29% to 80% non-condensing
Storage Range: 8% to 80% non-condensing

Physical

Dimension: Width: 12.9 Inches (318mm)
Depth: 11.7 Inches (296.5 mm) (with handle retracted)
Height: 3.46 Inches (88 mm)
Weight: 16.4 lbs (7.4 kg) (with battery and hard disk drive)

Options:

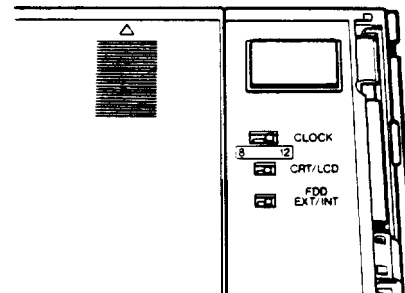
Modem: Internal 2400-baud, Hayes-compatible, auto-dial

Memory: 1 MB RAM expansion card

Expansion cards: One 2/3-size, IBM PC AT-compatible slot

Carrying case: Soft case for carrying computer

Switch Settings

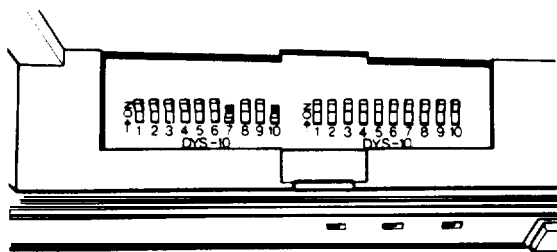


Slide Switches

The clock slide switch selects between 8MHz and 12MHz. Slide switch to the left to select 8MHz, slide to the right to select 12MHz.

The CRT/LCD slide switch selects support for either an external CRT or the LCD. Slide switch to the right for the LCD, slide to the left to connect an external CRT.

The FDD **EXT/INT slide switch enables** and disables support for an **external 5.25"** diskette drive. Slide switch to the left if you plan to connect an external diskette drive, slide to the right if you do not plan to **use** such a drive.



DIP Switches

SW-1

Switches	Function
1 2 3 4 5 6 7-10	
ON OFF ON OFF OFF OFF SEE TABLE	<ul style="list-style-type: none"> • Not Used - Must be ON • Selects enhanced color display Selects monochrome or color • Reserved - Must be ON • Reserved - Must be ON • Reserved - Must be ON • Selects expanded LCD mode Selects standard LCD mode CRT/LCD Configuration (below)

* Factory Settings

SW-2

Switches	Function
1 2 3 4 5 6 7-10	
ON ON OFF ON OFF ON ON OFF SEE TABLE	<ul style="list-style-type: none"> * Not Used - Must be ON * Selects int. FDD as Drive A Selects ext. FDD as Drive A * Not used- Must be ON * Selects color primary display Selects mono primary display * Reserved - Must be ON * Internal serial port COM1 Internal serial port COM2 SW-2 (continued)

* Factory Settings

SW-2 (Continued)

Jumper	Function
7 8 9 10	
ON OFF ON OFF ON OFF ON	<ul style="list-style-type: none"> * Enables internal serial port Disables internal serial port * Internal printer port LPT1 Internal printer port LPT2 * Enables internal printer port Disables internal printer port * Not used - Must be ON

* Factory Settings

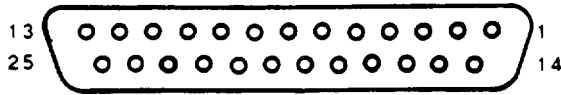
CRT/LCD Configuration

Switches	Function
7 8 9 10	
OFF ON OFF OFF ON OFF OFF ON ON OFF OFF OFF OFF ON ON ON OFF ON ON OFF	Selects MDA (CRT only) selects CGA 40X25 selects CGA 80x25 Selects EGA normal mode • Selects EGA enhanced mode

* Factory Settings

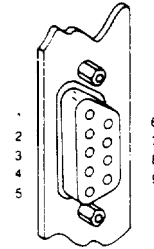
Connector Pin Assignments

Parallel Port Connector



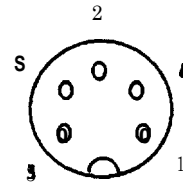
PIN NO.	SIGNAL #ME	DIRECTION	DESCRIPTION
1	- STROBE	0	
2	DATA0	0	Printer Data Bit 0
3	DATA1	0	Printer Data Bit 1
4	DATA2	0	Printer Data Bit 2
5	DATA3	0	Printer Data Bit 3
6	DATA4	0	Printer Data Bit 4
7	DATA5	0	Printer Data Bit 5
8	DATA6	0	Printer Data Bit 6
9	DATA7	0	Printer Data Bit 7
10	- ACK	↑	Acknowledge
11	+ BUSY	↑	Printer Busy
12	+ PE	↑	End of Paper
13	+ SLCT	↑	Printer Select
14	- AUTOFT	↑	Auto Feed
15	- ERROR	↑	Printer Error
16	- INIT	↑	Printer Initialize
17	- SLCTIN	↑	Printer Select in
18	GND		Ground
19	GND		Ground
20	GND		Ground
21	GND		Ground
22	GND		Ground
23	GND		Ground
24	GND		Ground
25	GND		Ground

Video Port Connector

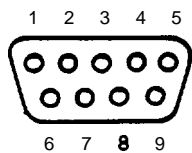


PIN	Monochrome	RGB	Enhanced RGB
1	Ground	Ground	Ground
2	Ground	Ground	S Red
3	Red	Red	Red
4	Green	Green	Green
5	Blue	Blue	Blue
6	Intensity	Intensity	S Green
7	Video	No Con	S Blue
8	H sync	H Sync	H Sync
9	V. Sync	v sync	V Sync

Keyboard Interface Connector



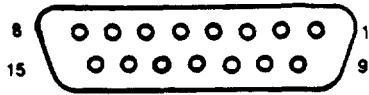
Serial Port Connector



PIN NO.	SIGNAL NAME	DIRECTION	DESCRIPTION
1	CRDET	↑	Carrier Detect
2	RXDT	↑	Receive Data
3	TXDT	0	Transmit Data
4	DTR	0	Data Terminal Ready
5	SG		Signal Ground
6	DSR	↑	Data Set Ready
7	RTS	0	Request to Send
8	CTS	↑	Clear to Send
9	RI	↑	Ring Indicator

PIN NO.	SIGNAL NAME	DIRECTION	DESCRIPTION
1	KBD CLK	I/O	Keyboard Clock
2	KBD DATA	I/O	Keyboard Data
3	-KBD RST	0	-Keyboard Reset
4	GND	-	Ground
5	+5 V	-	Power ● 5v

External Floppy Drive Connector



Pin	Signal	Direction	Definition
1	EXINDEX	I	External Index
2	EXDSEL	0	External Drive Select
3	EXMOTON	0	External Motor On
4	EXDIR	0	External Direction
5	EXSTEP	0	External Stop
8	EXWRDATA	0	External Write Data
7	EXWRGATE	0	External Write Gate
8	EXTRKO	I	External Track 0
9	EXWPROT	I	External Write Protect
10	EXRDDATA	I	External Read Data
11	EXHS1	0	External Side Select
12	EXDSKCHG	I	External Disk Change
13	GND		Ground
14	EXHIGH	0	External High Density
15	GND		Ground

Installation/Support Tips

Power

The **Equity LT-286e** AC adapter is an auto-sensing unit which adjusts automatically between **100-240 V, 50/60** I-k. **Therefore**, it can be **used** anywhere in the world without **special** adjustment.

When using the **Equity LT-286e** on battery power, conservation measures are available and should be used. **These are:**

- 1) set the backlight **period** option to the **shortest** available **setting** with SETLCD,
- 2) **set** the **brightness** and contrast control as low as is comfortable,
- 3) run at **8 MHz**, and
- 4) use the **HDDPSAVE** feature to automatically turn the HDD off at times when it is not being **accessed** constantly.

Periodically, discharge the battery completely. This will help to minimize the memory effect encountered with **NiCad** batteries. After the complete discharge, give the LT-286e a full, **8-hour** recharge. This **will** help to keep battery charge life **as** great **as** possible.

Video

- When using the Equity LT-286e with a monochrome monitor, **if** your **software** requires that you specify a display type, select EGA **640 X 350** MONO.

Mass Storage

Be careful when handling the removable hard drives. **Unnecessary** roughness can set off the shock indicator.

Software Problems

When installing a copy-protected software package on the Equity **LT-286e**, set the CPU speed to 8 MHz. **This** has been found to have fewer conflicts

with copy-protection. After the **installation**, the CPU **can be switched back to the higher speed**.

If a software package does not appear to be compatible **with** the **Equity LT-286e**, try switching the CPU speed to 8 **MHz** before giving up.

Information Reference List

Engineering Change Notices

None.

Technical Information Bulletins

None.

Product Support Bulletins

None.

Related Documentation

Y19499100100		Equity LT-286e User's Guide
Y18699100200		Equity LT-286e MS-DOS 4.01 Reference Manual
Y18699100400		Equity LT-286e MSDOS 4.01 Installation Guide
Y18699100500		Equity LT-286e MS-DOS 4.01 Shell User's Guide
Y18699100300		Equity LT-286e MS-DOS 4.01 Command Summary
M-TM-LT286e		Equity LT-286e Service Manual
M-PL-LT286E		Equity LT-286e Parts List
Y19499100200		Diagnostics Manual
Y19499100200		Equity LT-286e User's Guide